

NOTICE

All drawings located at the end of the document.

**Draft Buffer Zone
Sampling and Analysis Plan
Addendum #BZ-04-02
IHSS Group 900-12, East Trenches
Trenches T-6, T-8, T-9a, and T-9b
IHSSs 111.3, 111.5, 111.6a, and 111.6b**

October 2003

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Approval received from the Colorado Department of Public Health and Environment
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Approval letter is contained in the Administrative Record.

October 2003

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ACRONYMS

BZ	Buffer Zone
BZSAP	Buffer Zone Sampling and Analysis Plan
DOE	U.S. Department of Energy
FY	Fiscal Year
HPGe	high-purity germanium
HRR	Historical Release Report
IHSS	Individual Hazardous Substance Site
ug/kg	micrograms per kilogram
mg/kg	milligrams per kilogram
NFAA	No Further Accelerated Action
N/A	not applicable
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram
PCOC	potential contaminant of concern
RL	reporting limit
SAP	Sampling and Analysis Plan
SVOC	semi-volatile organic compound
VOC	volatile organic compound
WRW	wildlife refuge worker

1.0 INTRODUCTION

This Buffer Zone (BZ) Sampling and Analysis Plan (SAP) (BZSAP) Addendum #BZ-04-02 includes Individual Hazardous Substance Site (IHSS) Group-specific information, sampling locations, and potential contaminants of concern (PCOCs) for IHSSs proposed for characterization during Fiscal Year (FY) 04. This BZSAP Addendum is a supplement to the BZSAP (DOE 2002a) and includes data and proposed sampling locations for portions of IHSS Group 900-12. The associated IHSSs are listed in Table 1. The location of the IHSS Group is shown on Figure 1.

Table 1
BZSAP Addendum #BZ-04-02 IHSS Group

IHSS Group	IHSSs
900-12	NE-111.3, Trench T-6
	NE-111.5, Trench T-8
	NE-111.6a, Trench T-9a
	NE-111.6b, Trench T-9b

IHSS Group 900-12 contains other IHSSs/trenches that are recommended or approved for No Further Accelerated Action (NFAA), including IHSS NE-110/Trench T-3 (approved February 14, 2002 [DOE 2002b]); IHSS-111.1/Trench T-4 and IHSS 111.4/Trench T-7 (approved June 12, 2003 [DOE 2003]); and IHSS 111.2/Trench T-5, IHSS 111.7/Trench T-10, and IHSS 111.8/Trench T-11 (final document not published for approval). These sites do not require any further characterization.

2.0 EXISTING IHSS INFORMATION

Existing information and data for the IHSSs are available in Appendix C of the BZSAP (DOE 2002a), the Draft BZ Data Summary Report (DOE 2001), the Historical Release Report for the Rocky Flats Plant (DOE 1992), and the Draft Trenches and Mound Site Characterization Report (DOE 1996). Existing concentrations greater than background means plus two standard deviations, or reporting limits (RLs), are presented on Figure 2. Table 2 presents PCOCs by IHSS Site.

3.0 SAMPLING

Biased sampling will be conducted to augment the existing data presented on Figure 2. The proposed biased sampling locations (seven) are shown on Figure 3. The proposed sampling and analysis specifications for each IHSS Site are summarized in Table 3 and listed, by sampling location, in Table 4. After characterization starts, the number and type of samples may change based on field conditions and/or sampling results. Changes to sampling specifications will be considered in consultation with the regulatory agencies.

Table 2
Potential Contaminants of Concern

IHSS Group	Site	PCOCs	Media	Sources	Sampling Type
900-12	NE-111.3, Trench T-6	Radionuclides Metals PCBs SVOCs VOCs	Surface and Subsurface Soil	HRR (DOE 1992) Process knowledge (Draft BZ Data Summary [DOE 2001] and BZSAP [DOE 2002a]) Draft Trenches and Mound Site Characterization Report (DOE 1996)	Biased locations
	NE-111.5, Trench T-8	Radionuclides Metals PCBs SVOCs VOCs	Surface and Subsurface Soil	HRR (DOE 1992) Process knowledge (Draft BZ Data Summary [DOE 2001] and BZSAP [DOE 2002a]) Draft Trenches and Mound Site Characterization Report (DOE 1996)	Biased locations
	NE-111.6a, Trench T-9a	Radionuclides Metals PCBs SVOCs VOCs	Surface and Subsurface Soil	HRR (DOE 1992) Process knowledge (Draft BZ Data Summary [DOE 2001] and BZSAP [DOE 2002a]) Draft Trenches and Mound Site Characterization Report (DOE 1996)	Biased locations
	NE-111.6b, Trench T-9b	Radionuclides Metals PCBs SVOCs VOCs	Surface and Subsurface Soil	HRR (DOE 1992) Process knowledge (Draft BZ Data Summary [DOE 2001] and BZSAP [DOE 2002a]) Draft Trenches and Mound Site Characterization Report (DOE 1996)	Biased locations

Table 3
Sampling Summary

Category	Total
Number of Sampling Locations	7
Number of Samples Collected	42
Number of Radionuclide Analyses	42
Number of Metal Analyses	42
Number of VOC Analyses	42
Number of SVOC Analyses	42
Number of PCB Analyses	42

4.0 REFERENCES

DOE, 1992, Historical Release Report for the Rocky Flats Plant, Golden, Colorado, June.

DOE, 1996, Draft Trenches and Mound Site Characterization Report, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2001, Rocky Flats Environmental Technology Site Buffer Zone Data Summary Report, Golden, Colorado, July.

DOE, 2002a, Buffer Zone Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE, 2002b, Annual Update for the Historical Release Report, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2003, Annual Update for the Historical Release Report, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

Table 4
Sampling Specifications for IHSS Group 900-12

IHSS Group	Trench	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
900-12	Trench T-6	CZ41-000	2087861.492	749637.905	Surface Soil	0 - 0.5'	Radionuclides	HPGe	Alpha Spec
					Surface Soil	0 - 0.5'	Metals	6200	6010
					Surface Soil	0 - 0.5'	PCBs	N/A	8082
					Surface Soil	0 - 0.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
					Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
					Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
					Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260
		DA41-000	2087966.960	749641.812	Surface Soil	0 - 0.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	Trench	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
	Trench T-8	CZ40-001	2087930.502	749520.718	Surface Soil	0 - 0.5'	Metals	6200	6010
					Surface Soil	0 - 0.5'	PCBs	N/A	8082
					Surface Soil	0 - 0.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
					Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
					Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
					Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260
					Surface Soil	0 - 0.5'	Radionuclides	HPGe	Alpha Spec
					Surface Soil	0 - 0.5'	Metals	6200	6010
					Surface Soil	0 - 0.5'	PCBs	N/A	8082
					Surface Soil	0 - 0.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	Trench	Location	Eastings	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
					Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
					Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
					Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260
					Surface Soil	0 - 0.5'	Radionuclides	HPGe	Alpha Spec
					Surface Soil	0 - 0.5'	Metals	6200	6010
					Surface Soil	0 - 0.5'	PCBs	N/A	8082
					Surface Soil	0 - 0.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260

IHSS Group	Trench	Location	Eastings	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
IHSS Group 900-12	Trench T-9a	CY40-001	2087619.304	749559.780	Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
					Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
					Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260
					Surface Soil	0 - 0.5'	Radionuclides	HPGe	Alpha Spec
					Surface Soil	0 - 0.5'	Metals	6200	6010
					Surface Soil	0 - 0.5'	PCBs	N/A	8082
					Surface Soil	0 - 0.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
					Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
					Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270

IHSS Group	Trench	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
	Trench T-9b	CX40-001	2087466.960	749532.437	Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Surface Soil	0 - 0.5'	Radionuclides	HPGe	Alpha Spec
					Surface Soil	0 - 0.5'	Metals	6200	6010
					Surface Soil	0 - 0.5'	PCBs	N/A	8082
					Surface Soil	0 - 0.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
					Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
					Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
					Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082

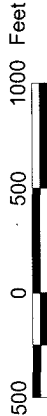
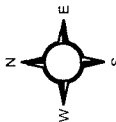
IHSS Group	Trench	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
		CX40-002	2087386.231	749518.114	Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260
					Surface Soil	0 - 0.5'	Radionuclides	HPGe	Alpha Spec
					Surface Soil	0 - 0.5'	Metals	6200	6010
					Surface Soil	0 - 0.5'	PCBs	N/A	8082
					Surface Soil	0 - 0.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
					Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
					Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
					Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010

IHSS Group	Trench	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260

Figure 1
IHSS Group 900-12
Location Map

KEY

- IHSS Group 900-12 trench
- Demolished building
- Standing building
- Paved road
- Dirt road
- Pond
- Stream



Scale = 1:11,000
State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:



Prepared for:



